

AN 1996:87852 HCAPLUS  
DN 124:296294  
TI Free-cutting lead-free brass alloys  
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SO Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07310133	A2	19951128	JP 1994-123213	19940512
	JP 3335002	B2	20021015		
PRAI	JP 1994-123213		19940512		

AB The alloys have high resistance to dezincification and wear, and they contain Zn 20-45; Bi 0.2-4; Sn 0.2-3; Ni  $\leq 4$ , Si  $\leq 3$ , Al  $\leq 6$ , Mn  $\leq 5$ , and/or Sb  $\leq 1$ ; and/or Fe  $\leq 3$ , Co  $\leq 3$ , Ti  $\leq 3$ , Mo  $\leq 1$ , Cr  $\leq 1$ , Zr  $\leq 2$ , and/or Nb  $\leq 1\%$ . The alloys contain Zn 22-42; Bi 0.5-2; Sn 0.5-2; Ni  $\leq 4$ , Si  $\leq 4$ , Al  $\leq 6$ , Mn  $\leq 5$ , and/or Sb  $\leq 1$ ; and/or Fe  $\leq 3$ , Co  $\leq 3$ , Ti  $\leq 3$ , Mo  $\leq 2$ , Cr  $\leq 2$ , Zr  $\leq 2$ , and/or Nb  $\leq 2\%$ . The alloys contain  $\leq 0.4\%$  Pb. The alloys are useful for sliding materials such as bearings for seawater pumps.